

1 WHAT IS CLAIMED IS:

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3 1. A core sample collector comprising a
4 cylinder extending in vertical direction and a piston
5 arranged movably within the cylinder, wherein the
6 piston is equipped with a sterilizing agent-applying
7 mechanism for applying a sterilizing agent to an inner
8 peripheral wall surface of the cylinder and a
9 sterilizing agent-scraping member for scraping the
10 sterilizing agent applied by the sterilizing agent-
11 applying mechanism as it moves within the cylinder.

1 2. The core sample collector according to claim
2 1, wherein the piston is composed of a piston body,
3 upper piston ring and lower piston ring making up the
4 sterilizing agent-scraping member, the upper piston
5 ring and lower piston ring are arranged so as to
6 project outward in a radial direction from an outer
7 peripheral surface of the piston body and slidably
8 come into contact with the inner peripheral wall
9 surface of the cylinder, and the sterilizing agent-
10 applying mechanism is made up by holding the
11 sterilizing agent within a space formed by
12 partitioning a vacant space between the piston and the
13 cylinder with the upper piston ring and the lower
14 piston ring.

1 3. The core sample collector according to claim
2 1 or 2, wherein the sterilizing agent-applying
3 mechanism is made up by arranging a sterilizing agent
4 carrier within the space formed by partitioning the
5 vacant space between the piston and the cylinder with
6 the upper piston ring and the lower piston ring and
7 causing the sterilizing agent to be carried and held
8 on the sterilizing agent carrier.

1 4. The core sample collector according to claim
2 1 or 2, wherein the sterilizing agent is an
3 antimicrobial or bactericidal plastic polymeric
4 substance.

1 5. The core sample collector according to claim
2 3, wherein the sterilizing agent is an antimicrobial
3 or bactericidal plastic polymeric substance.

1 6. A method of taking a core sample, comprising
2 using the core sample collector according to claim 1
3 or 2 to collect the core sample.

1 7. A method of taking a core sample, comprising
2 using the core sample collector according to claim 3
3 to collect the core sample.

1 8. A method of taking a core sample, comprising
2 using the core sample collector according to claim 4
3 to collect the core sample.

1 9. A method of taking a core sample, comprising
2 using the core sample collector according to claim 5
3 to collect the core sample.